

Parvej Sikdar

Front end Developer | React.js · Next.js · React Native

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SUMMARY

Front end developer with **4+ years of experience** architecting responsive web applications on **Next.js** with the **App Router, SSR and ISR**, alongside cross platform mobile apps on **React Native** and Expo. Shipped **seven live production surfaces** across the web, App Store, and Google Play for an EdTech startup operating in the UK and USA, on a platform that had managed **96,521 lessons** for **14,296 students** and **2,019 tutors** by July 2026. Implemented the full **Stripe** payment lifecycle, including Connect onboarding with automatic disbursement, PaymentSheet checkout, and subscription billing across **27,173 processed payments**, plus dual platform in app purchases with **Google Play Billing** and **Apple IAP** that reached **325+ paid subscribers**. Managed CI/CD pipelines, OTA updates, and store release compliance for live products in Agile sprints.

SKILLS

Languages: JavaScript (ES6+), TypeScript

Web: React.js, React, Next.js(App Router, SSR, ISR, Turbopack), Tailwind CSS, Shadcn/ui, Framer Motion, HTML, CSS

Mobile: React Native, Expo (Router, EAS Build, OTA), NativeWind, Reanimated, react-native-webview, react-native-iap

State & Forms: Redux, Context API, SWR, React Hook Form, Formik, Yup

Payments: Stripe (PaymentSheet, Connect, Subscriptions, Webhooks), react-native-iap, Google Play Billing, Apple IAP

Auth & APIs: NextAuth, Google OAuth, Apple Sign In, JWT, REST APIs, SWR, Google Calendar API, Google Maps (Places Autocomplete, Geocoding)

Data & Analytics: Axios, Firebase (Firestore, Auth, Storage), AsyncStorage, Meta Pixel, TikTok Pixel, Microsoft Clarity

Tooling & Delivery: Git, GitHub, Jest, CI/CD, OTA Updates, App Store and Play Store deployment, Figma, Xcode, Android Studio, Agile, Scrum

EXPERIENCE

MuseCool Ltd. - UK & USA (Remote) - Front End Developer

DEC 2024 – JUL 2026

- Built responsive web applications using **React** and **Next.js** with **TypeScript**, serving production traffic across two international markets on a platform that had managed **96,521 lessons** for **14,296 students** and **2,019 tutors** by July 2026.
- Designed and built a **passwordless magic link onboarding funnel** on a custom **NextAuth** credentials provider, moving new clients from a private email link through tutor recommendation, availability scheduling, and **Stripe** checkout with **3D Secure** and bank two factor authorisation, with no account creation or password at any step.
- Built a link based student onboarding flow with **Stripe SetupIntent 3D Secure** authentication for new and saved cards, an optional Muse Insights subscription with trial credit offers, and server side card verification before account activation.
- Built the full **Stripe payment lifecycle** covering **Connect** onboarding with identity verification and automated tutor payouts across **27,173 payments**, handling single lessons priced **£21 to £102** in the UK and **\$35 to \$145** in the US, with **£10 to £22** and **\$15 to \$32** company commission per lesson.
- Built a **Google Maps tutor discovery** tool with **Places Autocomplete** and the **Geocoding API** for UK and US postcode search, real time filtering by instrument, gender, availability and student count, shortlisting with push notification and email outreach, and an **AI recommendation microservice** using **embedding similarity search** to match tutors to students by distance, specialty and preference.
- Integrated **Google OAuth** and **Apple Sign In** with secure token storage across web and mobile platforms.
- Integrated **Google Calendar OAuth** for tutor scheduling, **Meta Pixel** and **TikTok Pixel** for conversion tracking, and GDPR compliant consent gated **Microsoft Clarity** analytics.
- Improved **Core Web Vitals** by applying route level code splitting, image optimisation, and lazy loading on the Next.js platform.
- Integrated **in app purchases** across iOS and Android with two subscription tiers, back end receipt verification, and real time purchase listeners, reaching **325+ paid subscribers** by July 2026.
- Shipped and maintained production **React Native** apps on both the **App Store** and **Google Play**, managing build pipelines, store submissions, review compliance, and release cycles.
- Delivered **over the air updates (OTA)** via **EAS Update** for rapid bug fixes and feature rollouts without app store resubmission.
- Built a native to web **WebView bridge** with two way JavaScript messaging, token based auth injection and keep awake for embedded dashboards.

Lycaenum Music Ltd. - London, UK (Remote) - Front End Developer

APR 2022 – NOV 2024

- Implemented interactive, responsive UI across breakpoints using Tailwind CSS and headless components.

- Integrated **Stripe** payment gateway for lesson bookings with graceful fallback strategies for edge case failures.
- Built cross platform mobile features using **React Native** alongside the web codebase, deployed to both app stores.
- Conducted code reviews, enforced coding standards, and mentored junior developers across the team.

LIVE WEB PROJECTS

Smart Practice & Progress Tracker (AI Companion App for Piano Tutors)

Marketing and product site for an AI music tutor app - interactive 3D prototype, playable piano, and conversion tracked download flow.

- Built the marketing and product site on **Next.js**, **React**, and **TypeScript** with **Tailwind CSS**.
- Developed an interactive "Try The Muse" prototype with a 3D device frame and scroll animations.
- Engineered a playable piano synthesised in real time from oscillators and filters.
- Implemented device aware app store download flow with **Meta Pixel** and **TikTok** conversion tracking.
- Integrated consent gated **Microsoft Clarity** analytics and **Google Calendar OAuth** for tutor scheduling.

Tech: Next.js, React, TypeScript, Tailwind CSS v4, Three.js, GSAP, Web Audio API, Radix UI, React Hook Form, Axios, Embla Carousel, Lottie, Meta Pixel, TikTok Pixel, Microsoft Clarity, Google Calendar OAuth

Live: <https://musecool.com/the-muse>

On Demand Professional Booking Platform (Tutor Onboarding & Scheduling Platform)

Dual path tutor signup with Google Calendar sync, availability picker, and device aware onboarding with QR codes, used to onboard **2,019 tutors** across UK and US operations by July 2026.

- Built dual path tutor signup with **Google OAuth** and email registration to reduce drop off.
- Integrated **Google Calendar** sync using **OAuth 2.0** with CSRF protected, server side token exchange.
- Implemented per day availability picker with custom time ranges and validation.
- Built device aware onboarding with QR codes, platform detection, and app store deep links.
- Added GDPR cookie consent flow gating **Microsoft Clarity** analytics until opt-in.

Tech: Next.js (App Router, Turbopack), React, TypeScript, Tailwind CSS v4, Radix UI / shadcn/ui, React Hook Form, Google OAuth, Google Calendar API, Axios, SWR, Microsoft Clarity, Lottie

Live: <https://tutor.musecool.com/>

LIVE MOBILE PROJECTS

Tutor Management App (React Native / Expo)

A cross platform tutor facing app enabling music educators to manage lessons, receive payouts, and upload audio content, serving **2,019 tutors** across UK and US operations.

- Built a cross platform tutor app embedding a web dashboard in a native **WebView** with a two way JavaScript message bridge for seamless native integration.
- Integrated **Stripe Connect** onboarding with live verification status tracking, enabling tutors to receive payouts from **27,173 processed platform payments** directly within the app.
- Implemented a resumable chunked audio upload queue with exponential retry, backoff and crash recovery.
- Loaded the web dashboard inside the app through a **WebView** with token based login and keep awake functionality.
- Integrated **Google** and **Apple Sign In** with secure token storage and microphone permission handling.

Tech: React Native, Expo, TypeScript, Expo Router, react-native-webview, Stripe Connect, expo-audio, react-native-audio-api (Web Audio), Reanimated, react-native-svg, pdf-lib/expo-print, SWR, React Hook Form, AsyncStorage, expo-secure-store, NativeWind, Google & Apple Sign In

Play Store: [Tutor management app](#) **App Store:** [Tutor management app](#)

Consumer Learning & Subscription App (React Native / Expo)

A cross platform music learning app for iOS and Android where **14,296 students** book lessons, purchase instruments, and manage subscriptions, supporting **96,521 lessons** and **325+ paid subscribers** by July 2026.

- Built **Stripe PaymentSheet** checkout for lessons and instruments using server issued setup intents and ephemeral keys.
- Integrated in **app subscriptions** across two tiers with back end receipt verification and purchase listeners, reaching **325+ paid subscribers**.
- Shipped a single codebase to iOS and Android with platform specific store products.
- Embedded the web app in app via **WebView**, injecting **JWT** authentication and handling navigation to native screens.
- Gated premium access by syncing subscription status from the back end with secure token storage.
- Delivered **OTA updates** via **EAS Update** for rapid bug fixes and feature rollouts without app store resubmission.

Tech: React Native, Expo (Router, EAS, OTA Updates), TypeScript, Stripe, react-native-iap, WebView, NativeWind/Tailwind, Axios, SWR, Formik/Yup, expo-secure-store, Jest, Google Play Billing

Play Store: [Subscription app](#) **App Store:** [Subscription app](#)

PORTFOLIO PROJECTS

SikdarMart (Next.js · Agriculture E-Commerce)

Fully responsive agricultural E-Commerce storefront for the Bangladesh market, covering product catalogue, cart, wishlist, and checkout.

- **Designed a hybrid rendering strategy** in the **Next.js App Router**, keeping product and category pages server rendered for performance and SEO while isolating client side interactivity to cart, wishlist, and checkout.
- Built a reusable state pattern using **useReducer**, **Context**, and **localStorage** persistence to power both cart and wishlist, so shopping progress survives page reloads without a backend round trip.
- Implemented a three step checkout flow covering shipping, payment, and confirmation, with schema based validation via React Hook Form and Yup catching invalid input before order review.

Tech: Next.js, React, TypeScript, Tailwind CSS v4, Radix UI, React Hook Form, Yup, React Context, Git

Live: <https://sikdarmart.vercel.app/>

Sikdar Learning Academy (Next.js · EdTech)

A Bengali localised EdTech platform built for a coaching academy in Bangladesh, covering academic classes, admission prep, skills courses, and English language training.

- Designed a reusable widget based UI system with **Tailwind CSS** and **shadcn/ui**, enhanced with **Framer Motion** animations for counters, transitions, and scroll reveals.
- Modelled a type safe domain layer for courses, quizzes, payments, and dashboards in **TypeScript**, preparing the codebase for form validation, data fetching, and state management.
- Localised the full course, Catalogue, navigation, and platform messaging into **Bengali** while preserving standard exam terms like SSC and HSC, making the product genuinely usable for its target students rather than a translated afterthought.

Tech: React, Next.js, TypeScript, Tailwind CSS, Framer Motion, shadcn/ui, React Hook Form, Yup, Zustand, SWR, Axios, Git

Live: <https://sikdar-learning-academy.vercel.app/>

AgroManager (Dairy & Livestock Farm Management)

A bilingual English and Bangla dairy and livestock management app designed for Bangladeshi farmers.

- Implemented an offline first data layer with persisted auth sessions, mirroring **Firestore** reads to **AsyncStorage** for reliable field use.
- Developed a feedlot profitability engine calculating weight gain, cost per kg, and ROI from period based cost rules.
- Built a buyer ledger tracking milk sales, payments, and outstanding dues, with dashboard trend charts.
- Integrated one tap multi sheet Excel export of all farm records.

Tech: React Native, Expo (Expo Router, EAS Update), TypeScript, Firebase (Authentication, Cloud Firestore, Storage), AsyncStorage, React Hook Form, Yup, SWR, Axios, SheetJS (XLSX), React Native SVG, Reanimated, Git

APKPure: [AgroManager](#)

EDUCATION

Begum Rokeya University, Rangpur - BSc in Computer Science and Engineering (2023)

LANGUAGES

English - Professional working proficiency | Bangla - Native language